

A circular stamp from the OIPÉ LAP52 Patent & Trademark Office. The text "OIPÉ LAP52" is curved along the top inner edge, and "PATENT & TRADEMARK OFFICE" is curved along the bottom inner edge. In the center, the date "JUL 24 2006" is stamped.

Prakash Khemani

Title: LOCK MECHANISM FOR A
DISTRIBUTED DATA
SYSTEM

Atty. Dkt. No: 5681-11700

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Name of Registered Representative

Signature _____ Date July 20, 2006

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.

Goldick, and further in view of Bender. Applicants respectfully traverse these rejections for at least the reasons below.

Regarding claim 1, contrary to the Examiner's assertion, Montero in view of Goldick does not teach or suggest a distributed store configured to provide locked access to the primary state of session data to a process executing within one of a plurality of application servers, wherein providing locked access to the primary state to a process executing within one of the plurality of application servers, the distribute store is configured to send a lock token to the process, wherein only processes that have received a lock token can access the primary state. The Examiner admits that Montero does not teach a distributed store configured to send a lock token and relies upon Goldick, citing paragraphs 24-25 and 44-45. Goldick's system includes locking resources and maintaining subscriptions to lock-related events to effectively allow for asynchronous grants of a lock based on the time of the request to alleviate lock starvation. Goldick further teaches that a server may break an existing lock to prevent lost resources. However, Goldick, even if combined with Montero, does not mention anything about a distributed store sending lock tokens to processes *executing within an application server*. Instead, Goldick teaches a server that provides requesting *client* computer systems with locked access to resources. Goldick specifically refers to managing access by *client* computer systems.

Goldick's system for managing access to shared resources by client computer systems is very different from a distributed store sending a lock token to a process executing within an application server and from Montero's system for providing periodic storing of session data by multiple application servers. Goldick does not have anything to do with providing a plurality of application servers locked access to session data. Goldick is not directed toward providing locked access to *session data* at all. Instead, Goldick teaches a system for managing *client* access to shared resources, such as "text documents, application program modules, data objects, properties or attributes for data objects". The shared resources taught by Goldick are very different from session data configured for access by a plurality of application servers.

Additionally, the Examiner's proposed combination of Montero and Goldick would not result in a system that includes a distributed store configured to send a lock token to a process executing within one of a plurality of application servers. Instead, the Examiner's combination of Montero and Goldick would result in Montero's back-end database system that includes application servers maintaining session data for clients as taught by Montero, but also allows clients locked access to a server database, based on providing requesting clients lock tokens, as taught by Goldick. **As shown above, Montero nor Goldick, whether considered singly or in combination, fail to teach anything regarding a distributed store configured to send a lock token to a process executing within one of a plurality of application servers.** The Examiner's combination of Montero and Goldick does not teach or suggest all the limitations of Applicants' claim 1. Thus, the Examiner has failed to provide a *prima facie* rejection of claim 1.

In the Response to Arguments, the Examiner states, "[i]n response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references." However, as shown in Applicants' previous response and contrary to the Examiner's assertion, Applicants' arguments were in fact against the *combination* of art cited by the Examiner. (See, Response to Final Action, dated June 19, 2006, pp. 13 – 14).

Also, the Examiner has failed to provide a proper motivation for combining Montero and Goldick. The Examiner states that it would have been obvious to combine the teachings of Montero with those of Goldick "in order to prevent data inconsistency." However, preventing data inconsistency would only provide motivation for one to use either of systems taught by Montero or Goldick individually, as they both already individually provide methods to prevent data inconsistency. Thus, the Examiner's reason does not provide any motivation to combine or modify the individual teachings of Montero and/or Goldick. Additionally, as is well known in the art, there are many different ways to prevent data inconsistency. The mere desire to prevent data inconsistency would not in any way suggest or motivate one to modify the teachings of Montero with those of Goldick. As held by the U.S.

Court of Appeals for the Federal Circuit in *Ecolchem Inc. v. Southern California Edison Co.*, an obviousness claim that lacks evidence of a suggestion or motivation for one of skill in the art to combine prior art references to produce the claimed invention is defective as hindsight analysis. In addition, the showing of a suggestion, teaching, or motivation to combine prior teachings “must be clear and particular.” “Broad conclusory statements regarding the teaching of multiple references, standing alone, are not ‘evidence’.” *In re Dembiczak*, 175 F.3d 994, 50 USPQ2d 1614 (Fed. Cir. 1999).

In the Response to Arguments, the Examiner points out that motivation to combine reference may come from the references themselves, from knowledge of those skilled in the art or from the nature of the problem to be solved. The Examiner also refers to various features of the cited art that are relied on in the rejection of claim 1. The Examiner then repeats the assertion, “based on Montero in view of Goldick, it would have been obvious ... to utilize the teaching of Goldick to the system of Montero in order to prevent data inconsistency.” The Examiner has not provided any rebuttal or additional argument regarding Applicants’ argument that the desire to prevent data inconsistency would not in any way suggest or motivate one to modify the teachings of Montero with those of Goldick. The Examiner’s reasoning appears to be that since Montero teaches a common session database in a distributed environment and since Goldick teaches a resource lock management scheme in order to prevent the “lost update” problem, it would have been obvious to combine the Montero and Goldick. **However, just pointing out the individual features of two respective references does not provide any motivation to combine the references.**

Furthermore, the Examiner is improperly focusing his arguments only on specific differences between the present invention and the prior art, instead of considering the invention as a whole. The Examiner is arguing the obviousness of including the system for providing client computers with locked access to shared resources as taught by Goldick with the periodic updating by application servers of session data as taught by Montero. However, “the question under 35 U.S.C. 103 is not whether in differences themselves would have been obvious, but whether the claimed invention as a whole would have been obvious.” *Stratoflex, Inc. v. Aeroquip Corp.*, 713 F.2d 1530, 218 USPQ 871 (Fed. Cir. 1983); *Schenck v. Nortron Corp.*, 713 F.2d 782, 218 USPQ 698 (Fed. Cir. 1983). *See also*, M.P.E.P 2141.02. “Most if not all inventions arise from a combination of old elements. *See In re Rouffet*, 149 F.3d 1350, 1357, 47 USPQ2d 1453, 1457 (Fed. Cir. 1998). Thus, every element of a claimed invention may often be found in the prior art. *See id.* However, identification in the prior art of each individual part claimed is insufficient to defeat patentability of the whole claimed invention. *See id.*” *In re Werner Kotzab*, 217 F.3d 1365, 1371, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000) (*emphasis added*).

Regarding claim 17, contrary to the Examiner’s assertion, Montero in view of Goldick does not teach or suggest means for providing locked access to the primary state to a process executing within one of a plurality of application servers, wherein the means for providing locked access comprises means for sending the process a lock token, wherein only processes that have received a lock token can access the primary state. The Examiner does not provide a separate rejection for claim 17, but instead relies upon the rejection of claim 1, discussed above. As noted above regarding the rejection of claim 1, the Examiner relies upon Goldick, citing paragraphs 24-25 and 44-45. Goldick teaches a system for managing allocation of resources and locks to client computer systems. Goldick’s system includes locking resources and maintaining subscriptions to lock-related events to effectively allow for asynchronous grants of a lock based on the time of the request to alleviate lock starvation. Goldick further teaches that a server may break an existing lock to prevent lost resources.

However, Goldick, even if combined with Montero, does not teach anything about means for sending lock tokens to processes *executing within an application server*. As noted above, Goldick’s system for managing access to shared resources by *client* computer systems is very different from a sending a lock token to a process *executing within an application server* and from Montero’s system for providing periodic storing of session data by multiple application servers. Goldick does not mention anything about sending a lock token to processes executing within an application server. Nor does Goldick have anything to do with providing a plurality of application servers locked access to session data.

Additionally, as described above regarding claim 1, Goldick is not directed toward providing locked access to *session data* at all. Please refer to the remarks above regarding claim for a more detailed discussion regarding Goldick's failure to teach or suggest providing locked access to session data. Also, please refer to the remarks above regarding the rejection of claim 1 for a more detailed discussion of why the Examiner's proposed combination of Montero and Goldick would not result in a system that included means for sending a lock token to a process executing within one of a plurality of application servers. Moreover, please refer to Applicants' remarks above regarding the rejection of claim 1 for a detailed discussion of the Examiner's failure to provide proper motivation to combine Montero and Goldick.

Regarding claims 20 and 31, contrary to the Examiner's assertion, Montero in view of Goldick does not teach or suggest granting a lock to a process requested locked access to the primary state of session data, wherein said granting comprises sending a lock token to the process, wherein only processes that have received a lock token can access the primary state. The Examiner does not provide a separate rejection for claim 20, but instead relies upon the rejection of claim 1, discussed above. As noted above regarding the rejection of claims 1 and 17, the Examiner admits that Montero does not teach a distributed store configured to send a lock token and relies upon Goldick, citing paragraphs 24-25 and 44-45. As noted above, Goldick teaches a system for managing allocation of resources and locks to client computer systems. Goldick's system includes locking resources and maintaining subscriptions to lock-related events to effectively allow for asynchronous grants of a lock based on the time of the request to alleviate lock starvation. Goldick further teaches that a server may break an existing lock to prevent lost resources.

Please refer to the remarks above regarding claims 1 and 17 for a detailed discussion regarding why Goldick, even if combined with Montero, does not mention anything about sending lock tokens to processes *executing within an application server*. Additionally, please refer to the remarks above regarding the rejections of claims 1 and 17, for a discussion regarding why Goldick is not directed toward providing locked access to *session data* at all. Additionally, please refer to the remarks above regarding the rejection of claims 1 and 17 for a discussion of why the Examiner's proposed combination of Montero and Goldick would not result in a system that included means for sending a lock token to a process executing within one of a plurality of application servers. Moreover, as noted above regarding the rejection of claim 1, the Examiner has failed to provide a proper motivation for combining Montero and Goldick. Please refer to Applicants' remarks above regarding the rejection of claim 1 for a detailed discussion of the Examiner's failure to provide proper motivation to combine Montero and Goldick.

Regarding claims 26 and 35, the Examiner admits that Montero, Bennet and Bender, whether considered singly or in combination, fail to teach or suggest requesting the process release the locked access by the distributed store and the process releasing the locked access in response to the request by the distributed store. The Examiner relies upon Eshel, citing paragraphs [0011] and [0012], as well as Fig. 2. However, Eshel does not teach or suggest a distributed store requesting a process release a locked access. Instead, Eshel teaches that the other node requiring locked access, not the server or distributed store, sends a request to a process that holds a lock token for a shared resource. Specifically, at the Examiner's cited passage, Eshel teaches that when the token server receives a request from a node for a token that is current held by another node, the other node needs to relinquish its token and that "[t]his is accomplished by having the lock manager *of the requesting node* send a revoke request to the node holding the token" (Eshel, paragraph [0012]). Thus, Eshel plainly teaches that the requesting node, not the token server or a distributed store, sends a request a process to release a locked access. By teaching that the requesting node sends a revoke request to a node that holds a lock token for a shared resource, **Eshel teaches away** from a distributed store configured to request a process to release a locked access.

Eshel also fails to teach or suggest that the process holding a locked access is configured to release the locked access in response to a request from a distributed store. Instead, Eshel teaches that the node holding a lock token, "checks whether a lock requiring the token is currently held, *waits for any such lock to be released*, and

then sends a message to the token server to relinquish the token" (Eshel, paragraph [0012]). Thus, Eshel clearly teaches that a process holding locked access does not release the locked access in response to a request to release the lock access. Eshel's nodes wait until the lock is released. Eshel fails to teach the functionality for which the Examiner relies on Eshel. Since Montero, Bennet, Bender and Eshel all fail to teach or suggest the distributed store requesting the process to release the locked access, wherein the process is configured to release the locked access in response to the request from the distributed store, the Examiner's combination of Montero, Bennet, Bender and Eshel also fails to teach or suggest such functionality.

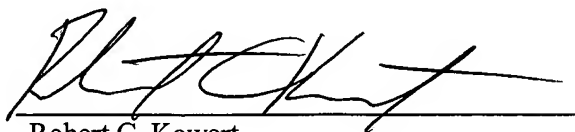
Furthermore, the Examiner has failed to provide a proper motivation to combine the teachings of Eshel with those of Montero, Bennet and Bender. The Examiner states that it would have been obvious to combine the teachings of Eshel with those of Montero "in order to provide the locked access to another node." However, the Examiner stated motivation is merely a reason why one would use the system taught by the background section of Eshel. The desire to provide locked access to another node would not motivate one to modify the teachings of Montero, Bennet or Bender. Additionally, the Examiner's stated motivation amounts to nothing more than stating what the Examiner hopes to achieve by making the combination. Such a conclusory statement does not provide motivation to modify the existing systems of Montero, Bennet and Bender. In the Response to Arguments, the Examiner fails to rebut or address Applicants' argument regarding a lack of proper motivation to combine the teachings of Eshel with those of Montero, Bennet and Bender.

In light of the foregoing remarks, Applicants submit the application is in condition for allowance, and notice to that effect is respectfully requested. If any extension of time (under 37 C.F.R. § 1.136) is necessary to prevent the above referenced application from becoming abandoned, Applicants hereby petition for such an extension. If any fees are due, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel PC Deposit Account No. 501505/5681-11700/RCK.

Also enclosed herewith are the following items:

- ☒ Return Receipt Postcard
- ☒ Notice of Appeal

Respectfully submitted,



Robert C. Kowert
Reg. No. 39,255
ATTORNEY FOR APPLICANT(S)

Meyertons, Hood, Kivlin, Kowert, & Goetzel, P.C.
P.O. Box 398
Austin, TX 78767-0398
Phone: (512) 853-8850

Date: July 20, 2006